

Amendments to the Specification:

Please replace the paragraph beginning on page 8, line 4 with the following amended paragraph:

-- The first metal pattern 120 may underlie the ceramic substrate 110 (i.e., the first metal pattern 120 is disposed on the bottom surface 160 of the ceramic substrate 110 as shown in FIG. 3). The first metal pattern 120 may be configured to expose the second plurality of vias 180 on the bottom surface 160 of the ceramic substrate 110. For example, the first metal pattern 120 may include a plurality of semi-circle shaped notches 198. The first metal pattern may further include a cutout or opening 125. The second metal pattern 130 and the third metal pattern 140 may overlie the top surface 150 of the ceramic substrate 110 (i.e., the second and third metal patterns 130, 140 are disposed on the top surface 150 of the ceramic substrate 110 as shown in FIG. 3). The second metal pattern 130 and the third metal pattern 140 may be configured in such a way that a gap 155 is formed to electrically isolate the second and third metal patterns 130, 140 from each other. The third metal pattern 140 may also include a cutout or opening 145. --

Please replace the paragraph beginning on page 10, line 5 with the following amended paragraph:

-- The circuit package 100 may further include a heat sink component 200 to provide greater thermal conductivity to the circuit package 100. The heat sink 200 may be, but is not limited to, a copper tungsten (CuW) heat sink 200. The heat sink 200 may be configured as a pedestal block having an upper body portion 210 having a perimeter edge and a top surface 215. The heat sink 200 may further include a lower body portion 220 also having a perimeter edge and a bottom surface 225. Use of terminology such as "upper," "lower," "top" and "bottom" is merely for the sake of describing the figures and is not intended to necessarily be descriptive description of the orientation of the circuit package 100 or its components to any particular orientation and should not be construed as a limitation on the scope of the claims. The top surface 215 of the upper body portion 210 may have a smaller surface area than the bottom surface 225 of the lower body portion 220, such that the lower body portion 220 may act as a flange extending outwardly from the upper body portion 210. --

Please replace the paragraph beginning on page 14, line 19 with the following amended paragraph:

-- A potential voltage difference may be created between the second metal pattern 130 and the metal source ~~260-270~~, such that the voltage potential of the first metal pattern is less than the voltage potential of the metal source. For example, the cathode 240 may be electrically coupled to a negative electrical source 270 to provide a negative charge to the second metal pattern 130, and an anode 250 may be electrically coupled to a positive electrical source 280 to provide a positive charge to the nickel metal source 260. The negative charge may be applied through the vias 180. A potential voltage difference may also be created by electrically coupling the second metal pattern 130 to ground, whereas a positive charge may be applied to the metal source 260. A potential voltage difference may also be created between the second metal pattern 130 and the remaining metal pattern(s) 120, 140. The first metal pattern 120, the third metal pattern 140 and the nickel metal source 260 may all be electrically coupled to the same positive electrical source 280 to avoid a potential voltage difference between the two. --

Amendments to the Drawings:

The attached sheets of drawings include changes to Figs. 1-4. These sheets, which include Figs. 1-4, replace the original sheets including Figs. 1-4. In Fig. 1, the lead lines of previously included elements 110, 120, 130, 140, 180 and 200 have been amended to remove arrow heads and more clearly indicate the represented feature. In Fig. 2, the numeric reference of previously included element 110 has been deleted. In Fig. 3, the lead lines of previously included element 180 have been amended to remove arrow heads and more clearly indicate the represented feature. Also in Fig. 3, previously included element 160 has been amended to correct for a drafting error and more clearly indicate the represented feature. In Fig. 4, the numeric reference of previously included element 110 has been deleted. Figs. 1-4 have further been amended to correct for informalities brought to the Applicants attention in the "Notice to File Missing Parts of Nonprovisional Application" dated May 26, 2004, a response to which is being filed herewith. Support for the requested changes may be found throughout the specification, drawings, and claims as originally filed. No new matter has been added.

Attachment: Replacement Sheets